1. [illegible]1[illegible]2[illegible]①[illegible]F_0[illegible]②[illegible]$2F_0$[illegible]$3F_0$[illegible]k[illegible]m[illegible]n[illegible]k[illegible]m[illegible]n[illegible]

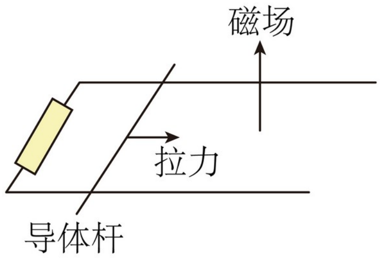


图1

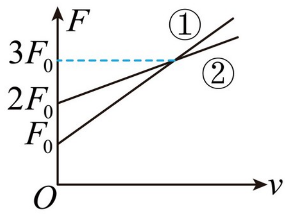


图2

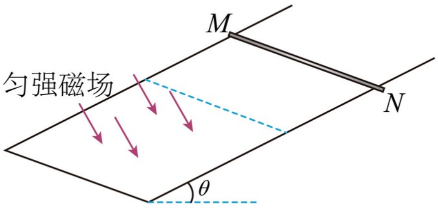
A. $k=2$[illegible]$m=2$[illegible]$n=2$

B. $k=2\sqrt{2}$[illegible]$m=2$[illegible]$n=\sqrt{2}$

C. $k=\sqrt{6}$[illegible]$m=3$[illegible]$n=\sqrt{2}$

D. $k=2\sqrt{3}$[illegible]$m=6$[illegible]$n=2$

2. [illegible]θ[illegible]U[illegible]m[illegible]MN[illegible]v[illegible]t[illegible]$2v$[illegible]g[illegible]



A. [illegible]N[illegible]M

B. [illegible]$\frac{3}{2}vt$

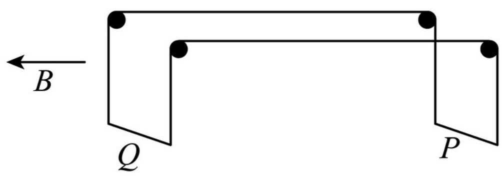
C. [illegible]

D. [illegible]$mgt\sin\theta - mv$

3. [illegible]$2m$[illegible]m[illegible]P[illegible]Q[illegible]P[illegible]Q[illegible]L[illegible]Q[illegible]B[illegible]Q[illegible]P[illegible]Q[illegible]g[illegible]P[illegible]

[illegible]1[illegible]P[illegible]

[illegible]2[illegible]Q[illegible]



4. [illegible]d[illegible]$efgh$[illegible]

[illegible]d[illegible]B[illegible]gh[illegible]$F=kv$[illegible]

b□$k>0$□$b>0$□□□ gh □□□□□□□□□□□□□□□ gh □□□□□□□□□□□$F=0$□gh □□□□□□ v □□□□□□ s □□□□□ 2 □□□□□

$v_0(v_0<\frac{b}{k})$ □ gh □□□□□□□□□□□□□□□□□□□□□□□□□ □

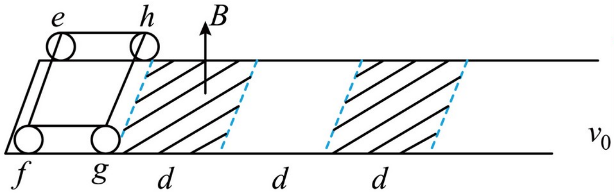


图1

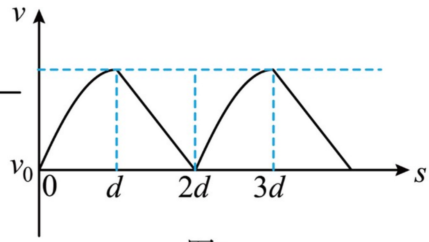


图2

A. gh □□□□□□□□□□□□ $\frac{kd}{b-kv_0}$

B. □□□□□□□ $\frac{B^2d^2}{k}$

C. □□□□□ $\frac{k^2d}{2(b-kv_0)}$

D. □□□□□□□ $\frac{2b}{k}+v_0$

1[illegible]C

[illegible] $v=0$ [illegible] $a_1=\frac{F_0}{m}$ [illegible] $a_2=\frac{2F_0}{m}$ [illegible]

[illegible] $x=\frac{1}{2}a_1t_1^2$ [illegible] $x=\frac{1}{2}a_2t_2^2$ [illegible] $n=\sqrt{2}$

[illegible] $a=\frac{F}{m}-\frac{B^2L^2v}{mR}$ [illegible] $F=ma+\frac{B^2L^2v}{R}$

[illegible] $F—v$ [illegible] $\frac{B^2L^2}{R}$ [illegible] $2=\frac{R_2}{R_1}\cdot\frac{B_1^2}{B_2^2}=\frac{1}{m}\cdot k^2$ [illegible] C

2[illegible]D

[illegible]A[illegible] M [illegible] N [illegible] A [illegible]

B[illegible] L [illegible] R [illegible]

$mg\sin\theta - F_{\square}=ma$ [illegible] $F_{\square}=BIL$ [illegible] $I=\frac{BLv}{R}$

[illegible] $a=g\sin\theta-\frac{B^2L^2v}{mR}$ [illegible]

$$s=\frac{v+2v}{2}\cdot t=\frac{3}{2}vt$$

[illegible] $v-t$ [illegible] t [illegible] v [illegible] $2v$ [illegible] $\frac{3}{2}vt$ [illegible] B [illegible]

C[illegible] $\overline{P}=\frac{W}{t}$ [illegible]

[illegible] C [illegible]

D[illegible] $mgt\sin\theta - I_{\square}=m\cdot 2v-mv$

[illegible] $I_{\square}=mgt\sin\theta-mv$ [illegible] D [illegible]

3□□□□□1□mg□□2□$\frac{mg}{BL}$

□□□□□1□□P□□□□□□□P□□□□□□□□□□□□0□□□□□□□□□□T□□P□$2T = 2mg$

□□$T = mg$

□2□□Q□□□□□□□□□F□□P□Q□□□□□□□□□mg□$F = 2mg$□$F = BIL$□□$I = \frac{mg}{BL}$

4□□□□BC

□□□□□□□gh□□□□□□□□□□□gh□□□□□□□□□□□□□□□□□gh□□□□□□□□□□□□□□□□□□□□□□□□□$efgh$□□□□□□v□□

$E = Bdv$□$I = \frac{E}{R}$□$F_{□} = BId$□F□$F_{□} = ma$□□□$kv + b - \frac{B^2d^2v}{R} = ma$

B□□□gh□□□□□□□□□,□□□□□□$efgh$□□□□□□□□□□□□$kv = \frac{B^2d^2v}{R}$□$ma = b$

□□$R = \frac{B^2d^2}{k}$□□B□□□

CD□gh□□□□□□□□□□□$F = 0$□□□□□□□$efgh$□□□□□□□□□□□□□$E = Bdv'$□$I' = \frac{E}{R}$□$F_{□} = BI'd$

□□□□□□□$-\frac{B^2d^2}{R}v\Delta t = mv_0 - mv'$□□□□□□□$-\frac{B^2d^3}{R} = mv_0 - mv_{max} = -kd$□$gh$□□□□□□□□□□□□□□□□□□$efgh$□□□□

□□□□□$v_{max}^2 - v_0^2 = 2ad$□□$ma = b$□□□$m = \frac{k^2d}{2(b - kv_0)}$□$v_{max} = \frac{2b}{k} - v_0$□□C□□□D□□□

A□□gh□□□□□□□□□□□□□□□□□□$efgh$□□□□□□□□□□□□$v_{max} = v_0$□at

□□gh□□□□□□□□□□□□□$t = \frac{kd}{b}$□□A□□□□□BC□